

**VERSION WITH MARKINGS TO SHOW CHANGES MADE****IN THE SPECIFICATION:**

**On page 13, please amend the third paragraph to read as follows:**

“Figure 5A illustrates a simplified optical IP switch 50 according to the present invention. The switch 50 includes a controller 56 and connects to a plurality (e.g., 16) optical ports 51 and each port connects to two “bundles” of optical fibers 52. It is noted that, instead of connection to 16 ports, the invention could easily connect to 8 ports or 32 ports or  $k$  ports for any reasonable value of  $k$  (e.g.,  $k \leq 100$ ).”

**IN THE CLAIMS:**

**Claims 38-39 have been added.**

**Please amend the claims to read as follows:**

1. (Amended) An optical switch for a network having a plurality of nodes, comprising:
  - 1) a switch coupled to communications links used for input and output in which a plurality of wavelengths are used to carry traffic on a communications link; and
  - 2) a controller, coupled to the switch, for controlling the operation of the switch by implementing a routing protocol, and implementing a labeling protocol that associates a label with a destination, said label comprising at least one of a wavelength and a fiber number [to associate a wavelength with a route table destination],

the controller controlling the switch to direct the various wavelengths of traffic from an input link to an appropriate output link as determined by the routing protocol and the labeling protocol.

31. (Amended) An optical switch for a network having a plurality of nodes, comprising:
  - 1) a switch coupled to communication links used for input and output in which a plurality of wavelengths are used to carry traffic on a communications link; and
  - 2) a controller, coupled to said switch, for controlling an operation of said switch by implementing a routing protocol and exchanging routing information with other nodes, implementing a network protocol and forwarding said traffic to a next hop, and implementing